



# 4K 8MP 16 Channel 1U NVR with Analytics

SKU: NVR16S-1-NCV

- Decoding of 1x at 4K/30FPS or 16x at D1/25FPS
- HDMI and VGA simultaneous output
- 1-ch, 3.5mm Audio Output
- Max 1x 8TB Hard Drive Capacity
- Ultra 265, H.265, H.264 Video Compression



## Smart Intrusion Prevention

Utilizing machine learning and data intelligence, Smart Intrusion Prevention or SIP helps reduce false-alarm rates by allowing you to set up Cross Line Detection, Intrusion Detection, as well as Enter / Leave Area, all which can do any combination of human/vehicle/non-motor vehicle recognition. Smart Intrusion Prevention's detection rate of >95% helps you improve your perimeter protection, reduce false alarms while keeping you informed about the events that matter the most to you.

## Ultra Motion Detection

Utilizing machine learning and data intelligence, Ultra Motion Detection or UMD helps you filter out object based on motion detection, detecting motion of specified object types in the image, and trigger an alarm when such motion is detected. UMD supports two different object types: Person and Vehicle. UMD provides a detection rate of >90% up to 49ft and is more efficient than traditional motion detection, further reducing false-alarms. Ultra Motion Detection can be configured to your full screen or area detection.

## ULTRA 265 Compression

Utilizing H.265 advanced video encoding, provides high-quality video while reducing the storage space needed to retain your video events. Users can add their own memory card to take advantage of its edge recording capabilities.

## Bandwidth

With a higher throughput of 64Mbps your IP network cameras can record at higher frame rates and resolutions without maxing out.

## NDAA Compliance

The John S. McCain National Defense Authorization Act (NDAA) is a United States federal law which specifies the budget, expenditures and policies of the U.S. Department of Defense. For Fiscal Year 2019, the NDAA Section 889, prohibits the U.S. government from procuring video and telecommunication equipment from certain Chinese companies and their subsidiaries. Some non government projects may require NDAA compliance if federal funding is being used.

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## Product Specifications

VIDEO/AUDIO INPUT	
IP Video Input	16-ch

NETWORK	
Incoming Bandwidth	64Mbps
Outgoing Bandwidth	48Mbps
Remote Users	128
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SMTP, RTSP

VIDEO / AUDIO OUTPUT	
HDMI / VGA Output	HDMI: 3840 x 2160 / 30Hz, 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
	VGA: 1920 x 1080 / 60Hz, 1920 x 1080 / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
Recording Resolution	4K / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF
Audio Output	1-ch, 3.5mm
Audio Compression	G.711A, G.711U
Synchronous Playback	16-ch
Liveview display	1 / 4 / 6 / 8 / 9 / 16
Corridor Mode Screen	3 / 4 / 5 / 7 / 9 / 10 / 12 / 16

DECODING	
Decoding Format	Ultra 265 / H.265 / H.264
Live View / Playback	4K / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF
Capability	1 x 4K @ 30, 4 x 5MP @ 25, 4 x 4MP @ 25, 4 x 3MP @ 25, 4 x 1080p @ 30, 8 x 720p @ 30, 16 x D1 @ 25

HARD DISK	
SATA	1 SATA interfaces
Capacity	Up to 8TB for each disk (The maximum HDD capacity varies with environment temperature)

SNAPSHOT	
FTP / Schedule / Event Snapshot	1-ch snapshot, up to D1 resolution

SMART	
VCA Detection by Camera	Face Detection, Smart Intrusion Prevention, Ultra Motion Detection, Human Detection, Vehicle Detection, Non-Motor Vehicle Detection, Intrusion, Cross Line, Enter Area, Leave Area
VCA Search	Behavior Search
Smart by IPC	All channels (up to 4 images/s in total) Face Detection, Smart Intrusion Prevention, Ultra Motion Detection

GENERAL ALARM	
General Alarm	Motion, Tampering, Human Body Detection, Video Loss, Alarm Input
Alert Alarm	IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal

EXTERNAL INTERFACE	
Network Interface	1 RJ45 10M/100M self-adaptive Ethernet Interface
USB Interface	Rear panel: 2 x USB2.0
RS232	NA
RS485	NA
Alarm In	NA
Alarm Out	NA

GENERAL	
Power Supply	12V DC Power Consumption: ≤ 5W (without HDD)
Working Environment	+14°F~+131°F, Humidity ≤ 90% RH (non-condensing)
Dimensions	10.2" (W) × 9.4" (D) × 1.8" (H)
Weight (without HDD)	2.16 lb

CERTIFICATION	
Certification	CE, FCC, UL, RoHS, WEEE
CE	EN 55032: 2015, EN 61000-3-3: 2013, EN IEC 61000-3-2: 2019, EN 55035: 2017
FCC	Part15 Subpart B, ANSI C63.4

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## Additional Products



**OPTIVIEW'S VIDEO MONITORING SOFTWARE**  
Remote Monitoring



**SURVEILLANCE DRIVES**  
4TB / 8TB



**IP4MIBC-28-SDA-NCV**  
4MP IP Bullet Camera w/  
Built-in Mic & Edge

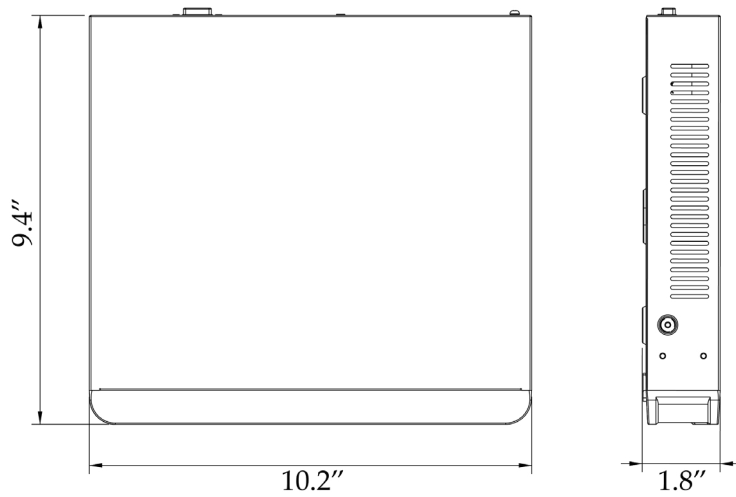


**IP5MIAB-28-SDAI-NCV**  
5MP Low Light Armor  
Ball IP Camera with AI



**IP5MPTZ-4XAD-NCV**  
5MP 4X Active  
Deterrence PTZ

## Dimensions



## Backplate

